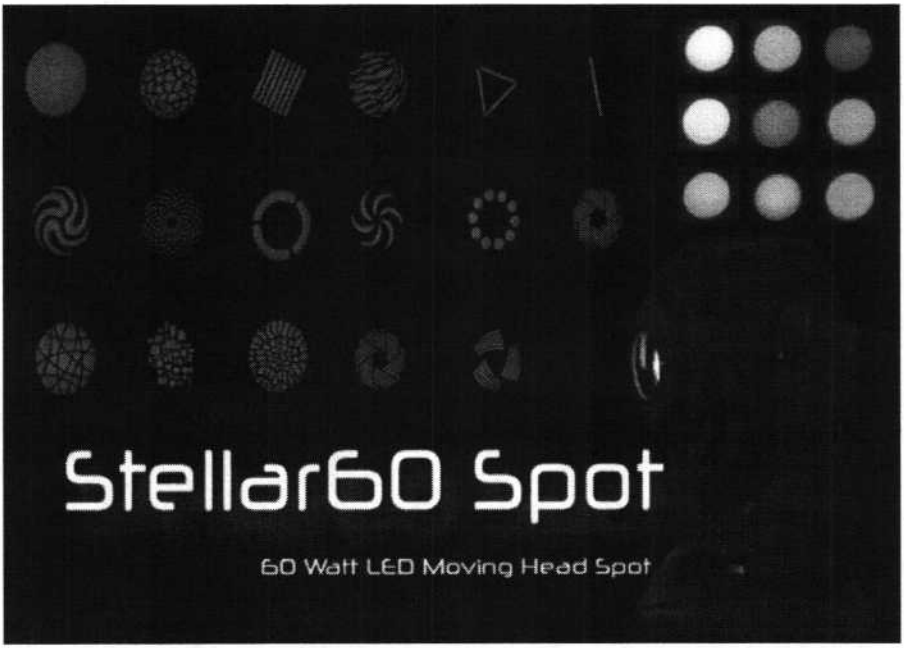
Eternal Lighting Company

Stellar60 Spot – 60 Watt LED Moving Head



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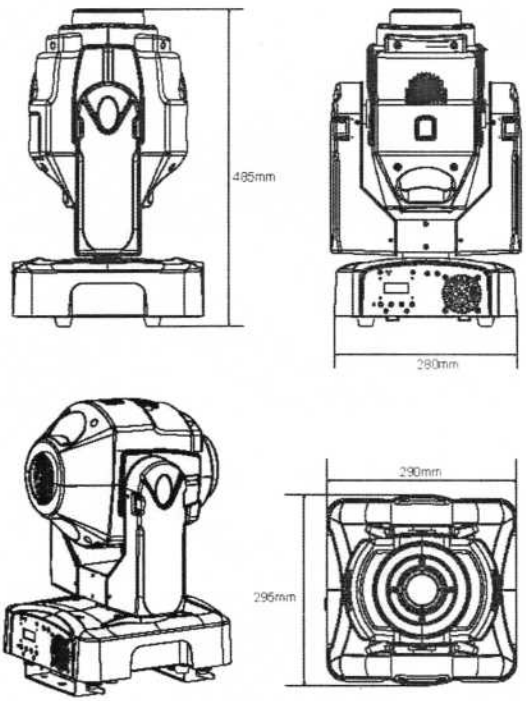
1 PRODUCT(GENERAL)

1.1 PRODUCT INTRODUCTION

This product is designed for indoor use only. Suitable for stage, bar or nightclub applications. Direct input of DMX512 signal allows the fixtures to be controlled from any DMX512 controller. The fixture is fully programmable with one custom program available and is supplied with two automatic programs (all accessible from DMX512 controller). This product can be operated as a single unit or with multiple units for large applications.

1.2 PRODUCT OVERVIEW



1.3 PRODUCT SPECIFICATIONS

Electrical
◆Voltage:AC 100~240V, 50/60Hz
◆Rated Power:150W

LED
◆LED:1PC(60W white)
◆Cooling:Forced air convection

Optical System
◆Focus:Electronic focus
◆Dimmer:0~100%
◆Strobe:0~20Hz
◆Rotating 3-facet Prism

Operation
◆Control mode: DMX512/Master-Slave/Auto/Custom/Sound
◆LCD display
◆DMX512 Chs:11CHS/ 14CHS

Pan/Tilt
◆Pan 540° Tilt 270°
◆Pan/Tilt speed
◆User-selectable Pan/Tilt ranges
◆Reverse Pan/Tilt movement

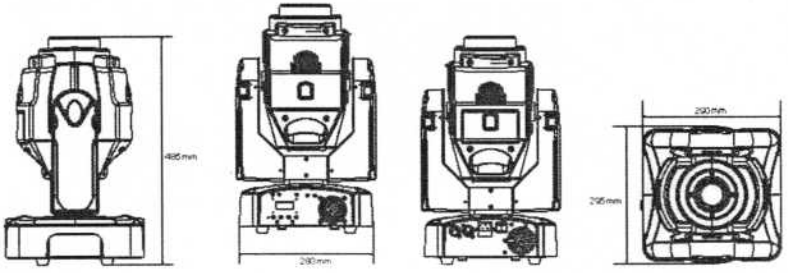
Rotating Gobo
◆7 Gobo (interchangeable)
◆Gobo-flow effect
◆Gobo shake
◆Bi-directional rotation

Static Gobo
◆9 Gobo
◆Gobo-flow effect
◆Gobo shake

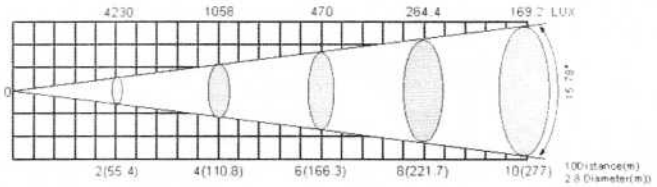
Color
◆8 dichroic - filters + white
◆Rainbow - flow effect

Other features
◆Custom program (255 steps)

◆ Size:295x290x485mm
◆ Weight:14kg



1.4 PHOTOMETRIC DATA



1.5 SAFETY WARNING

IMPORTANT:

- This product must be installed by a qualified professional.
- Always operate the equipment as described in the user manual.
- A minimum distance of 0.5m must be maintained between the equipment and combustible surface.
- The product must always be placed in a well ventilated area.
- Always make sure that the equipment is installed securely.
- DO NOT stand close to the equipment and stare directly into the LED light source.
- Always disconnect the power supply before attempting and maintenance.
- Always make sure that the supporting structure is solid and can support the combined weight of the products.
- The earth wire must always be connected to the ground.
- Do not touch the power cables if your hands are wet.

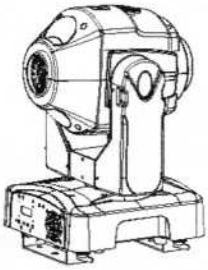
- This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correct and secure.
- If there is any malfunction of the equipment, contact your distributor immediately.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.

2 INSTALLATION

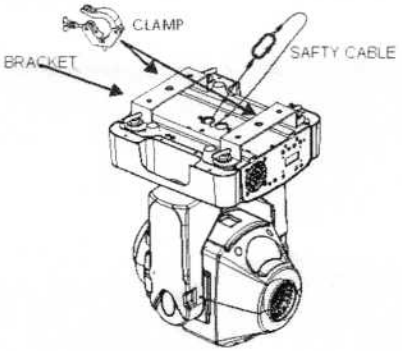
2.1 MOUNTING:

● The LED fixture can be operated in any position at any angle. When mounted on a flat surface, the surface must be strong enough to support 10 times the weight of the fixture and stable so that there will be no damage caused to the fixture or surrounding people or objects because of movements of the fixture on the surface.

● When the unit is mounted in a hanging position, the fixture is attached using the mounting brackets and a standard truss clamp or other clamping device. The mounting brackets supplied are mounted using quick-release locks allowing simple mounting or removal.



UPRIGHT



HANGING

IMPORTANT SAFETY NOTE!!
Always use a safety cable when installing this unit!!
Be sure that the safety cable is connected to a solid load-bearing structure.

2.2 SETTING UP (MASTER/SLAVE)

When units are connected in series using DMX512 signal cable connect the units as shown in the diagram below

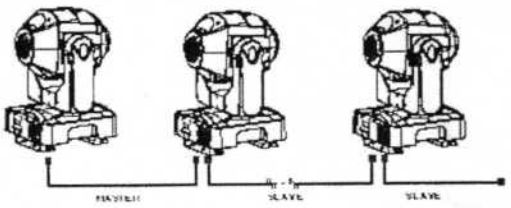
●Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first (MASTER) fixture.

●Connect the end of the cable coming from the MASTER fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.

●Then proceed to connect from the output as stated above to the input of the following fixture and so on.

●Set the first unit in the series to one of the STAND ALONE modes as described in section 2.2

●All other units in the series should be set to <SLAVE> from the <operation> menu.



2.3 SETTING UP (DMX512 CONTROLLER)

When units are connected in series to a DMX512 controller and other DMX512 equipment, connect the equipment as shown in the diagram below.

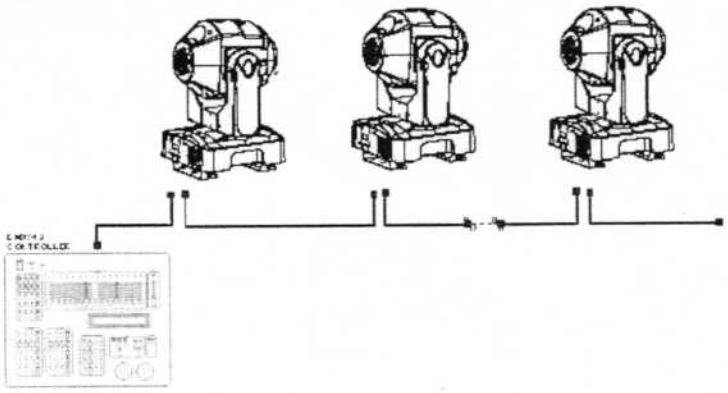
●Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the controller.

● Connect the end of the cable coming from the controller which will have a (female) 3 pin connector to the input connector of the next fixture

●consisting of a (male) 3 pin connector.

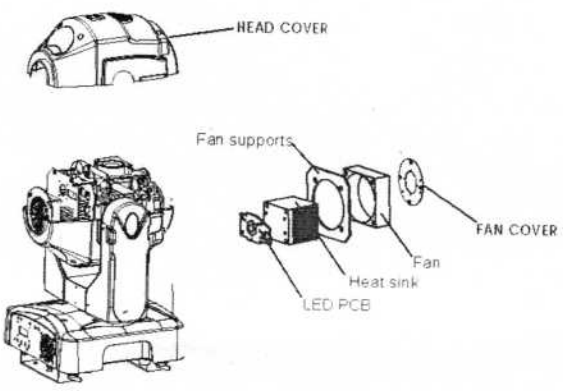
Then proceed to connect from the output as stated above to the input of the following fixture and so on.

●If over 32pcs fixtures connected ,the amplifier is needed.



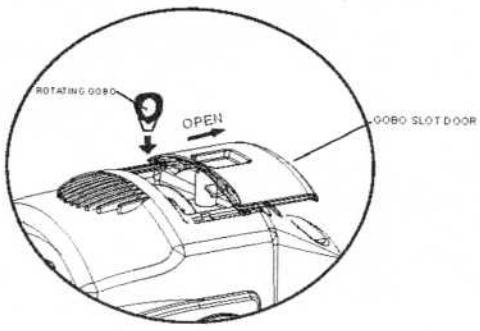
2.4 LED PCB REPLACEMENT

- Take off the head cover.
- Remove the fan cover, fan, fan supports, heat sink step by step.
- Replace the new LED PCB.
- Install all parts on the original position.



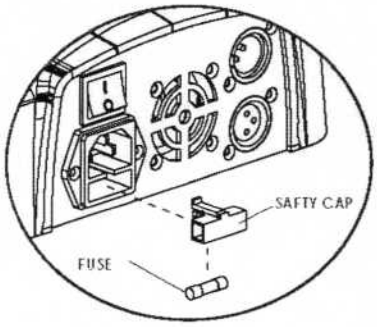
2.5 GOBO REPLACEMENT

- Unlock the gobo cover;
- Take out the target rotating gobo.
- Install the new rotating gobo, lock the gobo slot door.



2.6 FUSE REPLACEMENT

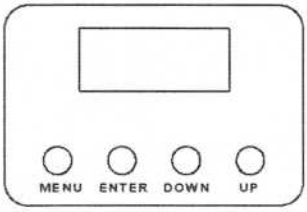
- Remove the safety cap by a screwdriver.
- Fetch the old fuse from safety cap.
- Install a new fuse.
- Install the safety cap.



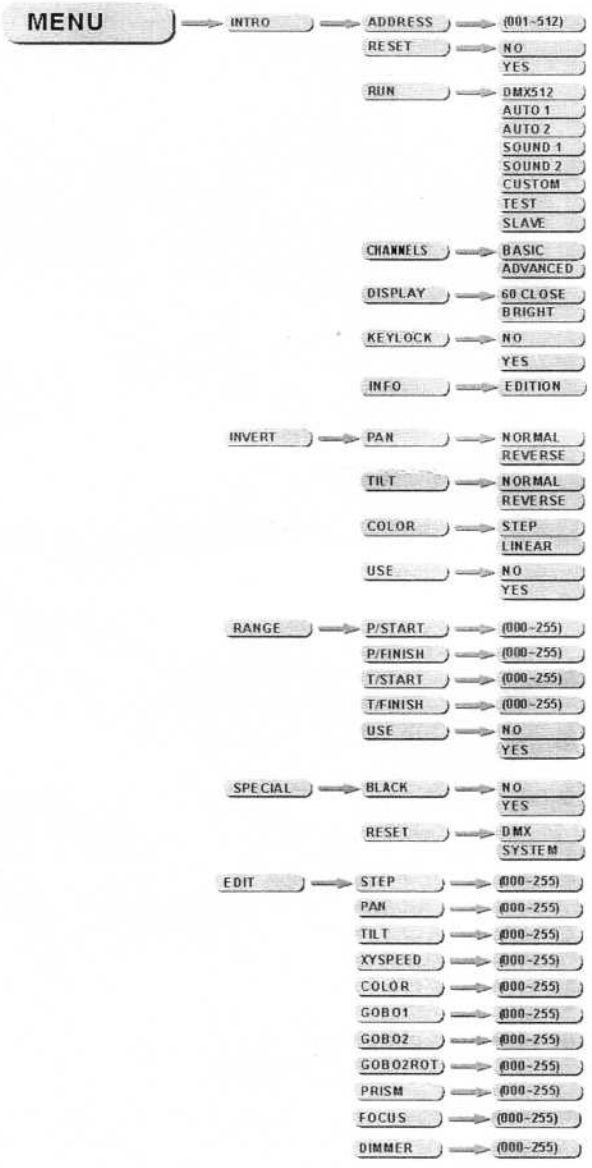
3 DISPLAY PANEL OPERATION

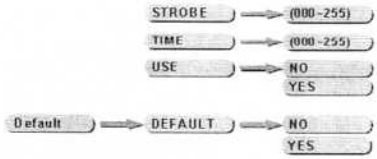
3.1 BASIC

【MENU】 Scroll through the main menu or exit from the current sub-menu
【ENTER】 Enter the currently selected menu or confirm the current function value
【DOWN】 Scroll 'DOWN' through the menu list or decrease the value of the current function
【 UP 】 Scroll 'UP' through the menu list or increase the value of the Current function

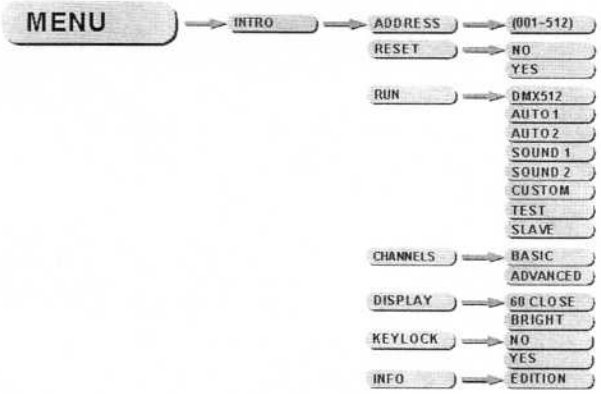


3.2 MENU


MENU
INTRO
ADDRESS
(001~512)
RESET
NO
YES
RUN
DMX512
AUTO 1
AUTO 2
SOUND 1
SOUND 2
CUSTOM
TEST
SLAVE
CHANNELS
BASIC
ADVANCED
DISPLAY
60 CLOSE
BRIGHT
KEYLOCK
NO
YES
INFO
EDITION
INVERT
PAN
NORMAL
REVERSE
TILT
NORMAL
REVERSE
COLOR
STEP
LINEAR
USE
NO
YES
RANGE
P/START
(000~255)
P/FINISH
(000~255)
T/START
(000~255)
T/FINISH
(000~255)
USE
NO
YES
SPECIAL
BLACK
NO
YES
RESET
DMX
SYSTEM
EDIT
STEP
(000~255)
PAN
(000~255)
TILT
(000~255)
XYSPEED
(000~255)
COLOR
(000~255)
GOBO1
(000~255)
GOBO2
(000~255)
GOBO2ROT
(000~255)
PRISM
(000~255)
FOCUS
(000~255)
DIMMER
(000~255)



3.3 INTRO



【*Address*】
● Enter 【*Address*】 to set the DMX Address, which is from (001-512)

【*Reset*】
● In order to rest custom modes to default, select 【*Reset*】

【*Run*】
● Enter 【*Run*】 to select the operation mode: 【*DMAX512*】; 【*Auto1*】; 【*Auto2*】; 【*Sound 1*】; 【*Sound 2*】; 【*Custom*】; 【*Test*】; 【*Slave*】

【*Channels*】
● Enter 【*Channels*】 to select the DMX channel modes: 【*Basic*】; 【*Advanced*】.

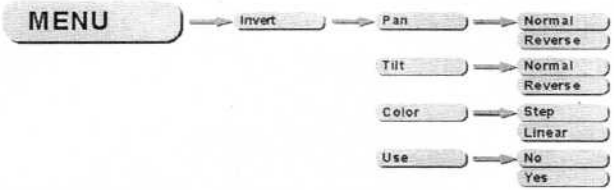
【*Display*】
● Enter 【*Display*】 to select the lighting time of the LCD display panel.

【*Keylock*】
● Enter the 【*Keylock*】 mode to select whether the access password is on or off.
● When the fixture is set as PASS 【*ON*】, after 30 seconds or turn on the fixture next time, the fixture will need an access password to enter the display menu control.

Note: The factory access password is 【*UP*】 + 【*DOWN*】 + 【*UP*】 + 【*DOWN*】, then press 【*ENTER*】 to confirm the access.

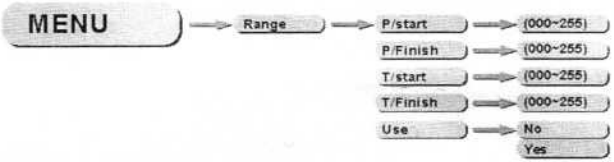
【*Info*】
● Enter 【*Info*】 to see the version of the software.

3.4 Invert



【*Invert*】
- Select【*Pan*】/【*Tilt*】to set【*Normal*】or【*Reverse*】
- Select【*Color*】to select the color wheel flow way【*Step*】or【*linear*】
- Enter【*Use*】and set【*Yes*】to run the new setting

3.5 Range



【*P/start*】
- Set pan start value【*000~255*】

【*P/Finish*】
- Set pan finish value【*000~255*】

【*T/start*】
- Set Tilt start value【*000~255*】

【*T/Finish*】
- Set Tilt finish value【*000~255*】

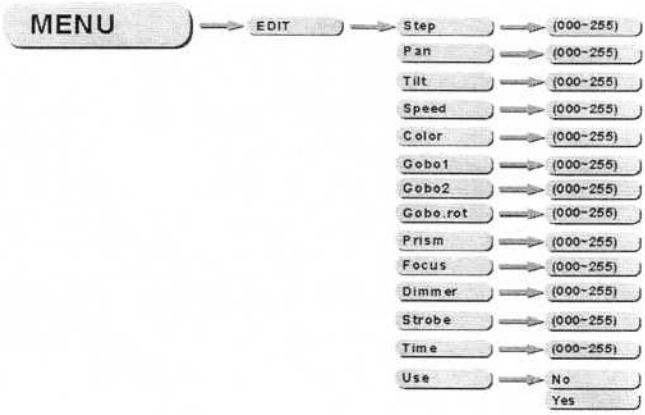
【*Use*】
- Enter【*Use*】and select【*Yes*】to open the operation of X/Y angle

3.6 Special

【*Black*】
- Enter【*Black*】to choose【*No*】without delay or【*Yes*】3seconds delay

【*Reset*】
- Enter【*Reset*】to choose【*DMX*】DMX control reset or【*System*】DMX cannot control reset

3.7 EDIT



【 *Edit* 】

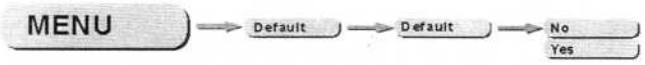
- Enter the【 ***Edit*** 】mode to editthe custom programsby adjusting the value of【***Step***】,【***Pan***】,【***Tilt***】,【***Speed***】,【***Color***】,【***Gobo 1***】, 【***Gobo 2***】,【***Gobo.rot***】,【***Prism***】,【***Focus***】,【***Dimmer***】,【***Strobe***】, 【 ***Time***】
- Enter【 ***Use***】 and select 【***Yes***】 to run the steps user need.

Note: if user wantto circulate thecreated steps, pleaseset the laststep's 【***Time***】 as 0

For example, thereare 3 steps,the setting shouldbe like belowed:

Step 1 【***Time***】 = 4 【 ***Use***】 = Yes
Step 2 【***Time***】 = 5 【 ***Use***】 = Yes
Step 3 【***Time***】 = 0 【 ***Use***】 = Yes

3.8 DEFAULT



【 *Default*】

- This functions willreset all settingto the original factory setting

4 USING A DMX512 CONTROLLER

4.1 BASIC ADDRESSING

- Connect all of the units in series using standard DMX512 signal cable.
- Set the DMX512 address in the 【*DMX*】 menu.
- It is possible to have the same DMX address or independent addresses for each fixture.

4.2 CHANNEL ASSIGNMENT

- Note: This product have two DMX512 channel configuration: 【*ADVANCED*】 and 【*BASIC*】.

ADVANCED

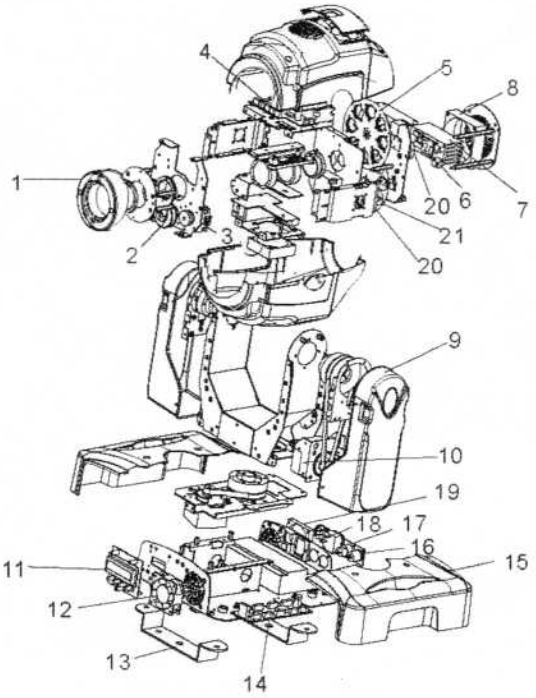
CHANNEL	VALUE	FUNCTION
1	0<=>255	PAN 0~540°
2	0<=>255	PAN FINE Fine control of pan movement
3	0<=>255	TILT 0~270°
4	0<=>255	TILT FINE Fine control of tilt movement
5	0<=>255	PAN/TILT SPEED From fast to slow
6		COLOR WHEEL
	0<=>16	White
	17<=>33	Red
	34<=>50	Yellow
	51<=>67	Magenta
	68<=>84	Green
	85<=>101	Orange
	102<=>118	Blue
	119<=>135	Light blue
	136<=>152	Light Green
	153<=>255	Rainbow of linear effect
7		FIXED GOBO WHEEL
	0<=>9	NO GOBO
	10<=>19	GOBO 1
	20<=>29	GOBO 2
	30<=>39	GOBO 3
	40<=>49	GOBO 4
	50<=>59	GOBO 5
	60<=>69	GOBO 6
	70<=>79	GOBO 7
	80<=>89	GOBO 8
	90<=>99	GOBO 9
	100<=>114	Shaking gobo 5
	115<=>129	Shaking gobo 8
	130<=>144	Shaking gobo 7
	145<=>159	Shaking gobo 6
	160<=>174	Shaking gobo 5
	175<=>189	Shaking gobo 4
	190<=>204	Shaking gobo 3
	205<=>219	Shaking gobo 2
	220<=>234	Shaking gobo 1
	235<=>255	Flow effect

CHANNEL	VALUE	FUNCTION
8		**GOBO WHEEL 1&GOBO SHAKE**
	0 <⇨ 9	NO Gobo
	10 <⇨ 19	Gobo 1
	20 <⇨ 29	Gobo 2
	30 <⇨ 39	Gobo 3
	40 <⇨ 49	Gobo 4
	50 <⇨ 59	Gobo 5
	60 <⇨ 69	Gobo 6
	70 <⇨ 79	Gobo 7
	80 <⇨ 99	Shaking gobo 7
	100 <⇨ 119	Shaking gobo 6
	120 <⇨ 139	Shaking gobo 5
	140 <⇨ 159	Shaking gobo 4
	160 <⇨ 179	Shaking gobo 3
	180 <⇨ 199	Shaking gobo 2
	200 <⇨ 219	Shaking gobo 1
	220 <⇨ 255	Flow effect
9		**GOBO ROTATION**
	0 <⇨ **60**	Gobo indexing
	61 <⇨ **158**	Clockwise rotating from slow to fast
	159 <⇨ **255**	Anti-clockwise rotating from slow to fast
10		**ROTATING PRISM**
	000 <⇨ **004**	NO FUNCTION
	005 <⇨ **009**	Rotation
	010 <⇨ **127**	Anti-clockwise rotating from slow to fast
	128 <⇨ **132**	NO FUNCTION
	133 <⇨ **255**	Clockwise rotating from slow to fast
11	000 <⇨ **255**	Focus
12		**DIMMER**
	0 <⇨ **255**	Dark ——— Bright
13		**STROBE**
	0 <⇨ 31	Close
	32 <⇨ **63**	Open
	64 <⇨ **95**	Strobe: Slow > Fast
	96 <⇨ **127**	Open
	128 <⇨ **159**	Pulse strobe effect: Slow > Fast
	160 <⇨ **191**	Open
	192 <⇨ **223**	Random strobe effect: Slow > Fast
	224 <⇨ **255**	Open
14		**CONTROL**
	0 <⇨ **19**	No function
	20 <⇨ **39**	Pan/tilt black activated (activated after 3 secs)
	40 <⇨ **59**	Pan/tilt black deactivated (activated after 3 secs)
	60 <⇨ **79**	Auto1 (activated after 3 secs)
	80 <⇨ **99**	Auto2 (activated after 3 secs)
	100 <⇨ **119**	Sound 1(activated after 3 secs)
	120 <⇨ **139**	Sound 2(activated after 3 secs)
	140 <⇨ **159**	Custom
	160 <⇨ **179**	Test (activated after 3 secs)
	180 <⇨ **199**	No function
	200 <⇨ **219**	Reset (activated after 3 secs)
	220 <⇨ **255**	No function

BASIC

CHANNEL	VALUE	FUNCTION
1		PAN
	0⇔255	0~540°
2		TILT
	0⇔255	0~270°
3		COLOR WHEEL
	0⇔16	White
	17⇔33	Red
	34⇔50	Yellow
	51⇔67	Magenta
	68⇔84	Green
	85⇔101	Orange
	102⇔118	Blue
	119⇔135	Light blue
	136⇔152	Light Green
	153⇔255	Rainbow or linear effect
4		FIXED GOBO WHEEL
	0⇔9	NO GOBO
	10⇔19	GOBO 1
	20⇔29	GOBO 2
	30⇔39	GOBO 3
	40⇔49	GOBO 4
	50⇔59	GOBO 5
	60⇔69	GOBO 6
	70⇔79	GOBO 7
	80⇔89	GOBO 8
	90⇔99	GOBO 9
	100⇔114	Shaking gobo 9
	115⇔129	Shaking gobo 8
	130⇔144	Shaking gobo 7
	145⇔159	Shaking gobo 6
	160⇔174	Shaking gobo 5
	175⇔189	Shaking gobo 4
	190⇔204	Shaking gobo 3
	205⇔219	Shaking gobo 2
	220⇔234	Shaking gobo 1
	235⇔255	Flow effect
5		GOBO WHEEL 1 &GOBO SHAKE
	0⇔9	NO Gobo
	10⇔19	Gobo 1
	20⇔29	Gobo 2
	30⇔39	Gobo 3
	40⇔49	Gobo 4
	50⇔59	Gobo 5
	60⇔69	Gobo 6
	70⇔79	Gobo 7
	80⇔99	Shaking gobo 7
	100⇔119	Shaking gobo 6
	120⇔139	Shaking gobo 5
	140⇔159	Shaking gobo 4
	160⇔179	Shaking gobo 3
	180⇔199	Shaking gobo 2
	200⇔219	Shaking gobo 1
	220⇔255	Flow effect

5.2 MAINTENANCE



No	ITEM
1	Front lense cover
2	Prism
3	Motot
4	Motor driver PCB
5	Rotation gobo wheel
6	LED PCB
7	Heat sink
8	Head fan
9	Arm
10	Motor
11	Display PCB

No	ITEM
12	Base fan
13	Bracket
14	X/Y PCB
15	Base cover
16	XLR socket B
17	XLR socket A
18	Power socket
19	On/Off
20	Fixed gobo wheel
21	Color wheel